

Application No. 10/805,816
Amendment dated April 18, 2007
Reply to Office Action dated October 18, 2006

Amendment to the Specification

Please delete paragraph [0001] and substitute in its place:

[0001]The inventions described herein ~~was~~ were made ~~in the performance work under a NASA contract and by an employee of the United States Government~~ as a result of activities undertaken within the scope of a cooperative agreement between the National Aeronautics and Space Administration and the University of California, San Diego, and is subject to the provisions of Public Law 96-517 (35 U.S.C. § 202) and may be manufactured and used by or for the Government for nmental purposes without the payment of any royalties thereon or therefor. In accordance with 35 U.S.C. 202, the contractor elected not to retain title.

Please delete paragraph [0017] and substitute it its place:

[0017]The data obtained from the captured reflected ultrasonic waves 32 are mathematically manipulated to differentiate the separate layers of the body, both inside and outside of the body compartment 20. Mathematical manipulations include organization and processing of the data in any appropriate manner that defines these layers. Preferably, the mathematical manipulation of the captured ultrasonic waves includes Fourier Transform manipulation. The Fourier Transform manipulations of the data allow categorization of pressure build-up in the interrogated body compartment. As Compartment Syndrome is most prevalent in arms and/or legs, these body masses are typically investigated, although other body compartments 20 also may be interrogated for pressure buildup. Aspects of tissue characterization are described in United States Patent No. 5,746,209 to Yost et al., entitled ~~AMethod~~ “Method of and Apparatus for Histological Human Tissue Characterization Using Ultrasound,” the disclosure of which is hereby incorporated by reference as if set forth in its entirety herein.